

*INTRODUCING*

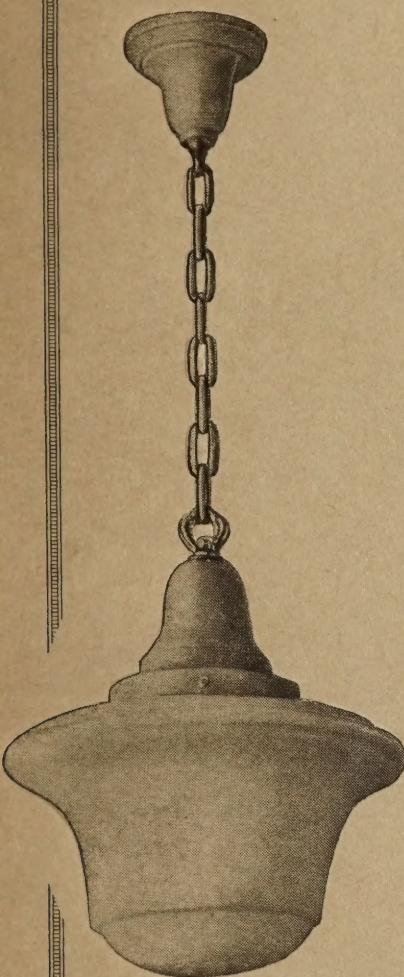
H. & B.  
**Celestialites**

(*Daylight Illumination*)

---

*The Light*  
“Supreme”

---



THE HORN & BRANNEN MFG. CO.  
427-433 North Broad Street, Philadelphia, Pa.

H. & B. CELESTIALITES

## H. & B. Celestialites Solve Your Lighting Problem

This Illuminator is:

### *The Most Efficient*

Utilizes 100% light rays, while absolutely eliminating "GLARE."

### *The Most Practical*

Perfect diffusion of artificial daylight—is dust proof and ventilated.

### *The Most Scientific*

Made of three layers of glass which eliminates eye strain and produces QUALITY ILLUMINATION of pleasing brightness.

Therefore the *Most Satisfactory Light* ever offered the public

### *It Dispels Gloom and Avoids Glitter*

Saves yours and your employees' eyesight, therefore promotes health and makes for efficiency.

Diffuses daylight rays over your merchandise.

18  
2pc

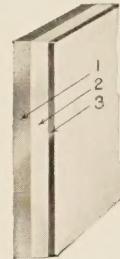
## The Wonderful H. & B. Celestialites

Investigate their merits before you buy any other.

See the list (on page 12) of Office Buildings, Hospitals, Beautiful Stores, Churches, Schools and Colleges, who have adopted Celestialites after exhaustive comparisons with all other kinds of glass.

**H. & B. Celestialites** are made of three layers of glass:

1. Clear Crystal to provide body and strength with minimum absorption of light.
2. Translucent white glass to diffuse the light evenly over the entire surface without glare.
3. A special light rectifying layer of transparent blue glass to eliminate some of the red and yellow rays and produce a soft white light.



**H. & B. Celestialites** are wired with No. 14 Asbestos Fireproof Wire and Porcelain Sockets, therefore no Insulated Joint is required.

Where individual control is desired a special canopy extension enclosing a pull switch can be furnished at additional cost of \$5 list.

Back of these **CELESTIALITES** is our forty years reputation for producing the best lighting equipment.

THE HORN & BRANNEN MFG. CO.

427-433 N. Broad Street  
Philadelphia, Pa.

# H. & B. CELESTIALITE S

---

Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	List Price Complete
U 150	75	No. 11228, 8½ x 4	10"	\$10.75
U 151	100-150	11228, 11 x 5	12"	14.50
U 152	200	11228, 13 x 6	14"	19.00
U 153	300-500	11228, 15 x 7	16"	31.50

Prices include Porcelain Receptacle.

Standard Finishes are Ecru Enamel or Brush Brass.

There is no extra charge for carton.



Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	List Price Complete
U 100	75	No. 11228, 8½ x 4	52"	\$13.40
U 101	100-150	11228, 11 x 5	54"	16.70
U 102	200	11228, 13 x 6	56"	21.00
U 103	300-500	11228, 15 x 7	58"	32.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and 3/8" Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are Ecru Enamel and Gold or Brush Brass.

There is no extra charge for carton.

H. & B.  
Celestialites  
Patent  
Applied For

# H. & B. CELESTIALITES

---



Catalogue Number	Watts	Glassware Celestialite Etched Ornate Design	Length Overall	List Price Complete
U 750	75	No. 11230, 8½ x 4	10"	\$14.15
U 751	100-150	11230, 11 x 5	12"	19.30
U 752	200	11230, 13 x 6	14"	25.00
U 753	300-500	11230, 15 x 7	16"	40.50

Prices include Porcelain Receptacle.

Standard Finishes are Ecru Enamel or  
Brush Brass.

There is no extra charge for carton.

Catalogue Number	Watts	Glassware Celestialite Etched Ornate Design	Length Overall	List Price Complete
U 700	75	No. 11230, 8½ x 4	52"	\$16.80
U 701	100-150	11230, 11 x 5	54"	21.50
U 702	200	11230, 13 x 6	56"	27.00
U 703	300-500	11230, 15 x 7	58"	41.00

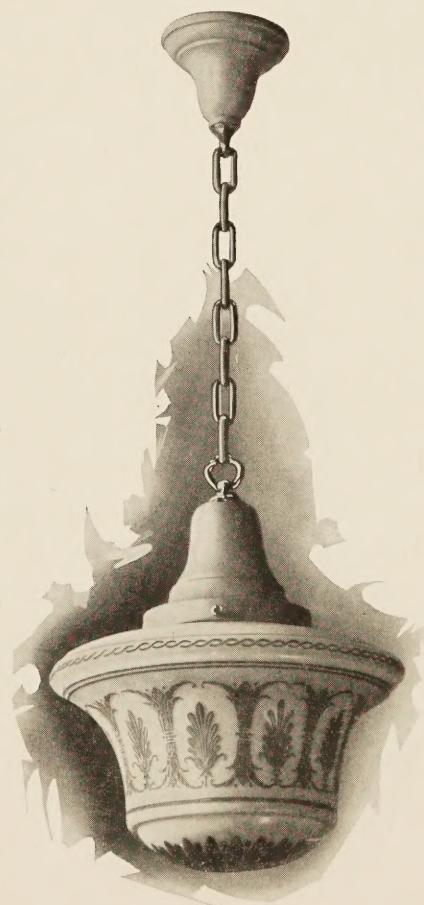
Prices include Porcelain Socket, No. 14 Asbestos Wire and ¾" Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are Ecru Enamel and Gold or Brush Brass.

There is no extra charge for carton.

H. & B.  
Celestialites  
Patent  
Applied For



# H. & B. CELESTIALITES

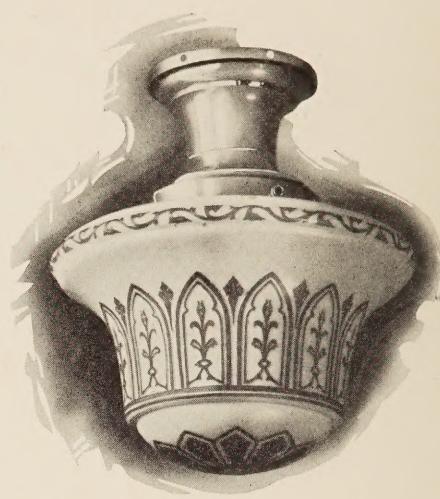
---

Catalogue Number	Watts	Glassware Celestialite Etched Gothic Design	Length Overall	List Price Complete
U 850	75	No. 11240, 8½ x 4	10"	\$14.15
U 851	100-150	11240, 11 x 5	12"	19.30
U 852	200	11240, 13 x 6	14"	25.00
U 853	300-500	11240, 15 x 7	16"	40.50

Prices include Porcelain Receptacle.

Standard Finishes are Ecru Enamel or Brush Brass.

There is no extra charge for carton.



Catalogue Number	Watts	Glassware Celestialite Etched Gothic Design	Length Overall	List Price Complete
U 800	75	No. 11240, 8½ x 4	52"	\$16.80
U 801	100-150	11240, 11 x 5	54"	21.50
U 802	200	11240, 13 x 6	56"	27.00
U 803	300-500	11240, 15 x 7	58"	41.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and ¾" Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are Ecru Enamel and Gold or Brush Brass.

There is no extra charge for carton.

H. & B.  
Celestialites  
Patent  
Applied For

# H. & B. CELESTIALITES



Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	List Price Complete
U 1050	75	No. 11228, 8½ x 4	10"	\$12.60
U 1051	100-150	11228, 11 x 5	12"	16.70
U 1052	200	11228, 13 x 6	14"	22.50
U 1053	300-500	11228, 15 x 7	16"	35.50

Prices include Porcelain Receptacle.

Standard Finishes are **Antique Bronze** and  
**Gold or Dull Old Gold**.

There is no extra charge for carton.

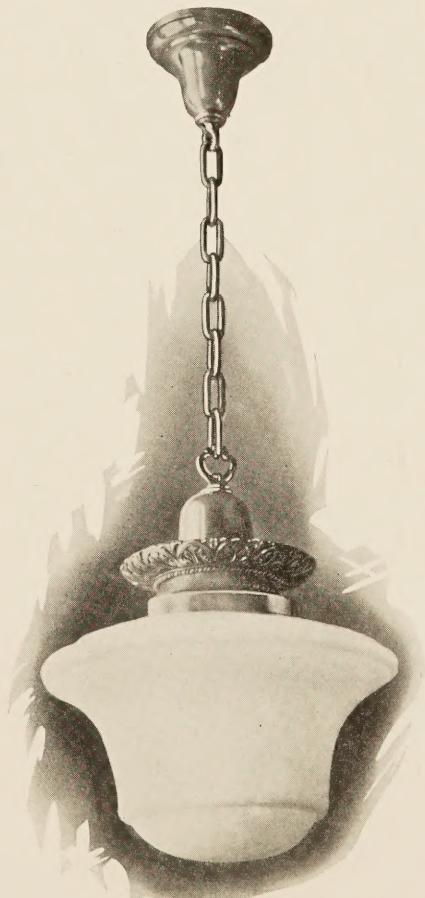
Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	List Price Complete
U 1000	75	No. 11228, 8½ x 4	52"	\$17.00
U 1001	100-150	11228, 11 x 5	54"	21.00
U 1002	200	11228, 13 x 6	56"	26.00
U 1003	300-500	11228, 15 x 7	58"	38.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and  $\frac{3}{8}$ " Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are **Antique Bronze** and **Gold or Dull Old Gold**.

There is no extra charge for carton.



*H. & B.  
Celestialites  
Patent  
Applied For*

# H. & B. CELESTIALITES

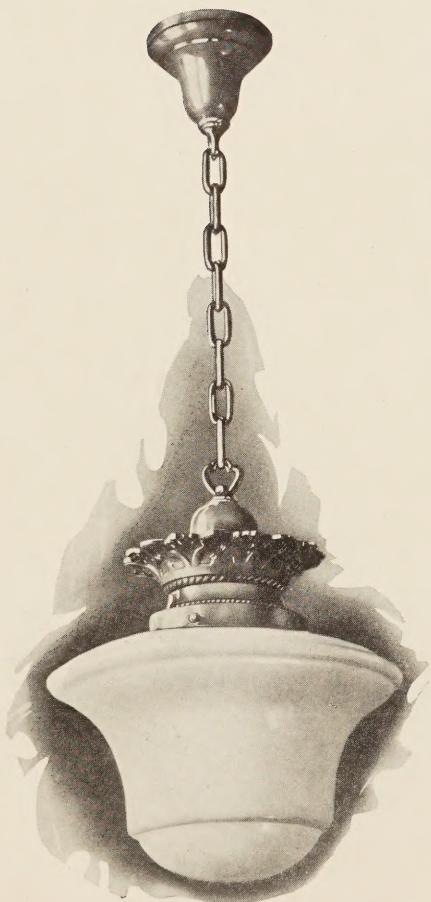
---

Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	List Price Complete
U 950	75	No. 11228, 8½ x 4	10"	\$12.60
U 951	100-150	11228, 11 x 5	12"	16.70
U 952	200	11228, 13 x 6	14"	22.50
U 953	300-500	11228, 15 x 7	16"	35.50

Prices include Porcelain Receptacle.

Standard Finishes are **Antique Bronze and Gold or Dull Old Gold.**

There is no extra charge for carton.



Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	List Price Complete
U 900	75	No. 11228, 8½ x 4	52"	\$17.00
U 901	100-150	11228, 11 x 5	54"	21.00
U 902	200	11228, 13 x 6	56"	26.00
U 903	300-500	11228, 15 x 7	58"	38.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and  $\frac{3}{8}$ " Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are **Antique Bronze and Gold or Dull Old Gold.**

There is no extra charge for carton.

H. & B.  
*Celestialites*  
Patent  
Applied For

# H. & B. CELESTIALITES

---



Catalogue Number	Watts	Glassware Celestialite Etched Ornate Design	Length Overall	List Price Complete
U 250	75	No. 11230, 8½ x 4	10"	\$16.00
U 251	100-150	11230, 11 x 5	12"	21.50
U 252	200	11230, 13 x 6	14"	28.50
U 253	300-500	11230, 15 x 7	16"	44.50

Prices include Porcelain Receptacle.

Standard Finishes are **Antique Bronze** and **Gold or Dull Old Gold**.

There is no extra charge for carton.

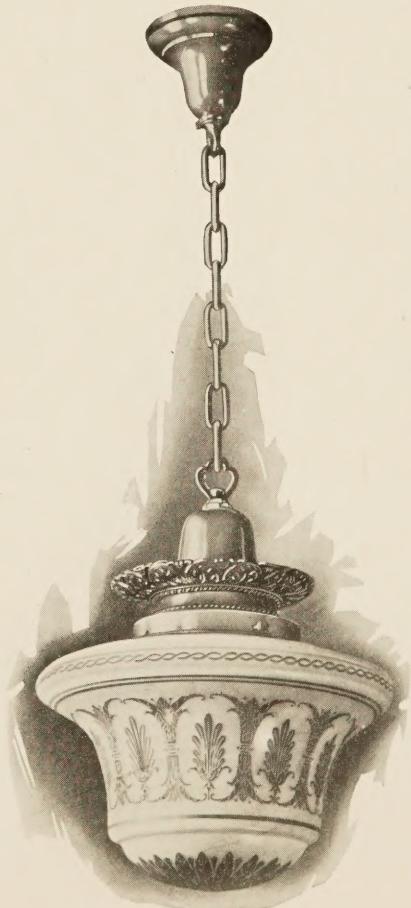
Catalogue Number	Watts	Glassware Celestialite Etched Ornate Design	Length Overall	List Price Complete
U 200	75	No. 11230, 8½ x 4	52"	\$20.40
U 201	100-150	11230, 11 x 5	54"	25.80
U 202	200	11230, 13 x 6	56"	32.00
U 203	300-500	11230, 15 x 7	58"	47.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and  $\frac{3}{8}$ " Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are **Antique Bronze** and **Gold or Dull Old Gold**.

There is no extra charge for carton.



H. & B.  
*Celestialites*  
Patent  
Applied For

# H. & B. CELESTIALITES

---

Catalogue Number	Watts	Glassware Celestialite Etched Gothic Design	Length Overall	List Price Complete
U 350	75	No. 11240, 8½ x 4	10"	\$16.00
U 351	100-150	11240, 11 x 5	12"	21.50
U 352	200	11240, 13 x 6	14"	28.50
U 353	300-500	11240, 15 x 7	16"	44.50

Prices include Porcelain Receptacle.

Standard Finishes are **Antique Bronze** and  
**Gold or Dull Old Gold**.

There is no extra charge for carton.



Catalogue Number	Watts	Glassware Celestialite Etched Gothic Design	Length Overall	List Price Complete
U 300	75	No. 11240, 8½ x 4	52"	\$20.40
U 301	100-150	11240, 11 x 5	54"	25.80
U 302	200	11240, 13 x 6	56"	32.00
U 303	300-500	11240, 15 x 7	58"	47.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and 3/8" Hickey.

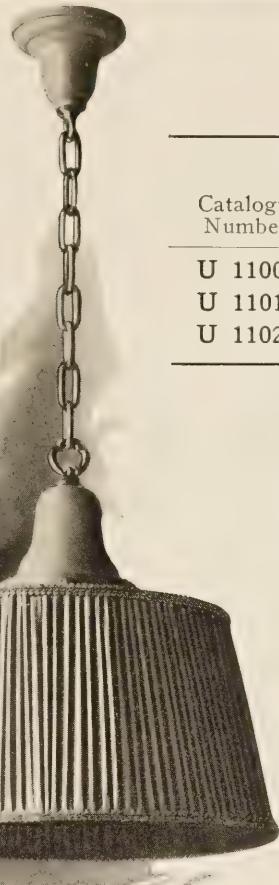
For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are **Antique Bronze** and  
**Gold or Dull Old Gold**.

There is no extra charge for carton.

H. & B.  
Celestialites  
Patent  
Applied For

# H. & B. CELESTIALITES



Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	Diam. of Silk Shade	List Price Complete with Silk Shade
U 1100	75	No. 11228, 8½ x 4	54"	12"	\$28.00
U 1101	100-150	11228, 11 x 5	56"	15"	36.00
U 1102	200	11228, 13 x 6	58"	18"	47.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and ¾" Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are Ecru Enamel and Gold or Brush Brass.

There is no extra charge for carton.



Catalogue Number	Watts	Glassware Celestialite Plain	Length Overall	Diam. of Silk Shade	List Price Complete with Silk Shade
U 1200	75	No. 11228, 8½ x 4	54"	12"	\$31.60
U 1201	100-150	11228, 11 x 5	56"	15"	40.30
U 1202	200	11228, 13 x 6	58"	18"	52.00

Prices include Porcelain Socket, No. 14 Asbestos Wire and ¾" Hickey.

For extra length add 50 cents per foot to list price. Chain is steel, heavily plated.

Standard Finishes are Antique Bronze and Gold or Dull Old Gold

Colors of Silk Shades are Gold, Putty, Rose and Blue.

There is no extra charge for carton.

H. & B.  
*Celestialites*  
Patent  
Applied For

## Celestialite Glass



Plain  
No. 11228



Etched Ornate Design  
No. 11230



Etched Gothic Design  
No. 11240

Catalogue Number	Watts	Description	List Price Each
11228	75	Celestialite Plain, 8½ x 4	\$7.20
11228	100-150	Celestialite Plain, 11 x 5	10.20
11228	200	Celestialite Plain, 13 x 6	14.00
11228	300-500	Celestialite Plain, 15 x 7	23.00
11230	75	Celestialite Etched Ornate Design, 8½ x 4	10.60
11230	100-150	Celestialite Etched Ornate Design, 11 x 5	15.00
11230	200	Celestialite Etched Ornate Design, 13 x 6	20.00
11230	300-500	Celestialite Etched Ornate Design, 15 x 7	32.00
11240	75	Celestialite Etched Gothic Design, 8½ x 4	10.60
11240	100-150	Celestialite Etched Gothic Design, 11 x 5	15.00
11240	200	Celestialite Etched Gothic Design, 13 x 6	20.00
11240	300-500	Celestialite Etched Gothic Design, 15 x 7	32.00

There is no extra charge for carton.

# H. & B. CELESTIALITES

The simplest method of estimating illumination, using H. & B. Celestialites, is to first learn how many square feet is contained in the area to be lighted, and then consult Table below for number of watts specified per square foot. The minimum watts noted are for large areas and ideal conditions (light walls and light ceiling).

In computing illumination, allowance must be made for varying conditions, for instance: dark furniture, dark pews in a church, or dark merchandise will absorb considerable light, therefore greater number of watts must be specified.

	Watts Per Sq. Foot
Auditorium .....	1 to 1½
Bank .....	1 to 1½
Ball Room .....	1 to 1¾
Church .....	1 to 1½
Cafe .....	1 to 1½
Court Room .....	1 to 1½
Drafting Room .....	2 to 3½
Hospital—Corridors .....	½ to 1
Operating Room .....	8
Wards .....	1 to 1½
Hotel .....	1 to 1¾
Library .....	1 to 1¾
Office .....	1 to 1¾
Stores .....	1 to 2
School—Class Room .....	1 to 1½
Assembly Room .....	1 to 1½

The most satisfactory results are obtained when the highest amount of watts is used. This allows for deterioration of surrounding surfaces and failure to keep the Light Unit clean.

H. & B. Celestialites should be suspended 8' 6" above floor. The 300 to 500 watt types should be 9' 6" or higher.

H. & B. Celestialites made of Etched Glassware require about 1/3 more watts than the plain type.

THE HORN & BRANNEN MFG. CO.

427-433 N. Broad Street

Philadelphia, Pa.

H. & B.  
*Celestialites*  
*Patent*  
*Applied For*

## A Few Typical Installations Where Celestialite Glassware is Used

### John Wanamaker, Philadelphia

known the world over as a successful merchant, selected Celestialite to properly display his merchandise. No more eloquent testimonial could be made to the merits of Celestialite.

### Strawbridge & Clothier, Philadelphia

have placed many repeat orders for Celestialite Glass.

### Church of the Gesu, Philadelphia

recently decided to relight the interior with Celestialite Fixtures.

### Hudson Bay Company, Victoria, B. C.

It is gratifying to have Celestialite Glass adopted by business men having such experience to guide them.

### Baltimore & Ohio R.R. Co., Baltimore, Md.

after elaborate tests by their Engineering Departments, over 800 Celestialite Units were installed.

### Liberty Motor Car Co., Detroit, Mich.

recently built a new office building and selected Celestialite Equipment for the lighting.

### The Texas Oil Company, New York City

recently re-lighted their New York City offices with Celestialite.

### The Standard Oil Co. of New Jersey

adopted Celestialite after careful comparison with all other types.

### Utica Country Day School, Utica, N. Y.

Celestialite won out over all competition, as it invariably does when quality and not price is the chief consideration.

Gimbel Bros., Philadelphia

B. F. Dewees & Co., Philadelphia

Jacob Reed & Sons, Philadelphia

Federal Reserve Bank, Richmond, Va.

B. Altman & Co., New York City

Jas. McCreery & Co., New York City

Abraham & Straus, Brooklyn, N. Y.

Jordan Marsh Co., Boston, Mass.

Noyes Buick Co., Boston, Mass.

Wm. Wanamaker, Philadelphia

Cheney Bros., New York City

Marshall Field & Co., New York City

Suburban Title & Trust Co., Philadelphia

St. Agnes Hospital, Philadelphia

Abington Hospital, Philadelphia

The Florist Shop, Philadelphia

McVeigh's Hardware Co., Philadelphia

Temple University, Philadelphia

Delaware & Atlantic Telephone Co., Atlantic  
City

Greensboro College for Women, Greensboro,  
N. C.

# ELECTRICAL TESTING LABORATORIES

GENERAL OFFICE AND LABORATORIES

80TH ST. AND EAST END AVE.,

NEW YORK, N. Y.

REPORT No. 39666

Rendered to THE HORN AND BRANNEN MANUFACTURING COMPANY

## VERTICAL DISTRIBUTION OF LIGHT

UNIT NO. U-102

Lamp - 200-watt Mazda C

Holder ---

Photometric Distance - 10 feet

Conditions - Lamp

& Auxiliary rotated

Dimensions of

Lamp and Auxiliary

a.....

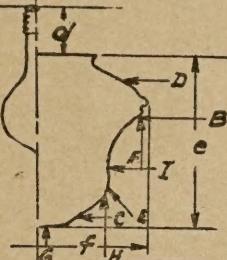
b .617.

c.....

d 2 7/8

e 10

f 12 3/4



Mid-zone Angles	Distribution Mean Vertical			
	App. Candlepower	Zonal Lumens	Lamp Alone	Lamp with Aux.
180° Zenith	153			
175°	27.4	144	3	14
165°	88	131	25	37
155°	162	137	74	63
145°	202	136	126	85
135°	231	133	179	103
125°	262	133	234	119
115°	273	131	271	130
105°	286	137	302	145
95°	291	143	316	156
90° Horiz.	288	145		
85°	315	148	336	163
75°	304	165	319	172
65°	257	179	259	178
55°	242	192	217	172
45°	229	207	177	160
35°	200	225	128	142
25°	166	248	77	114
15°	149	257	42	73
5°	139	264	13	25
0° Nadir.	136	263		
Spherical Values	246	163	3098	2051

Weight of glass: 4 lbs. 9-1/2 oz.

Tested by *R.C.S.*

Computed by *W.E.D.*

Plotted by *R.C.S.*

Checked by *R.C.S.*

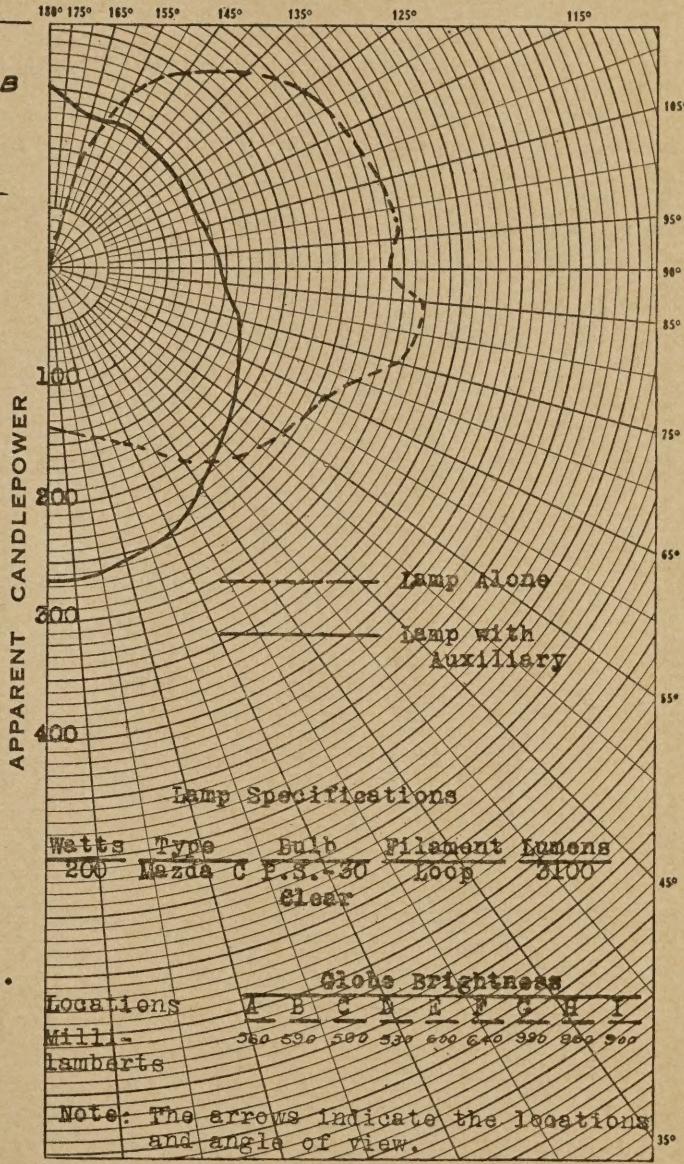
Order No. 24091-S

Plate No. 11968

Date June 28th, 1922.

Approved by

Engineer in Charge of Photometry.



In Charge of Test.

# *H. & B. Celestialites*



*The Ideal Light  
for Every Purpose*

THE HORN & BRANNEN MFG. CO.  
427-433 North Broad Street, Philadelphia, Pa.



**CELESTIALITE ILLUMINATION**

*"Next to Daylight"*

**IN ONE OF NEW YORK CITY'S  
MOST EFFICIENTLY MANAGED OFFICE**

**GLEASON-TIEBOUT GLASS CO.  
200 5<sup>TH</sup> AVE.      New York City**

